

FIG.1

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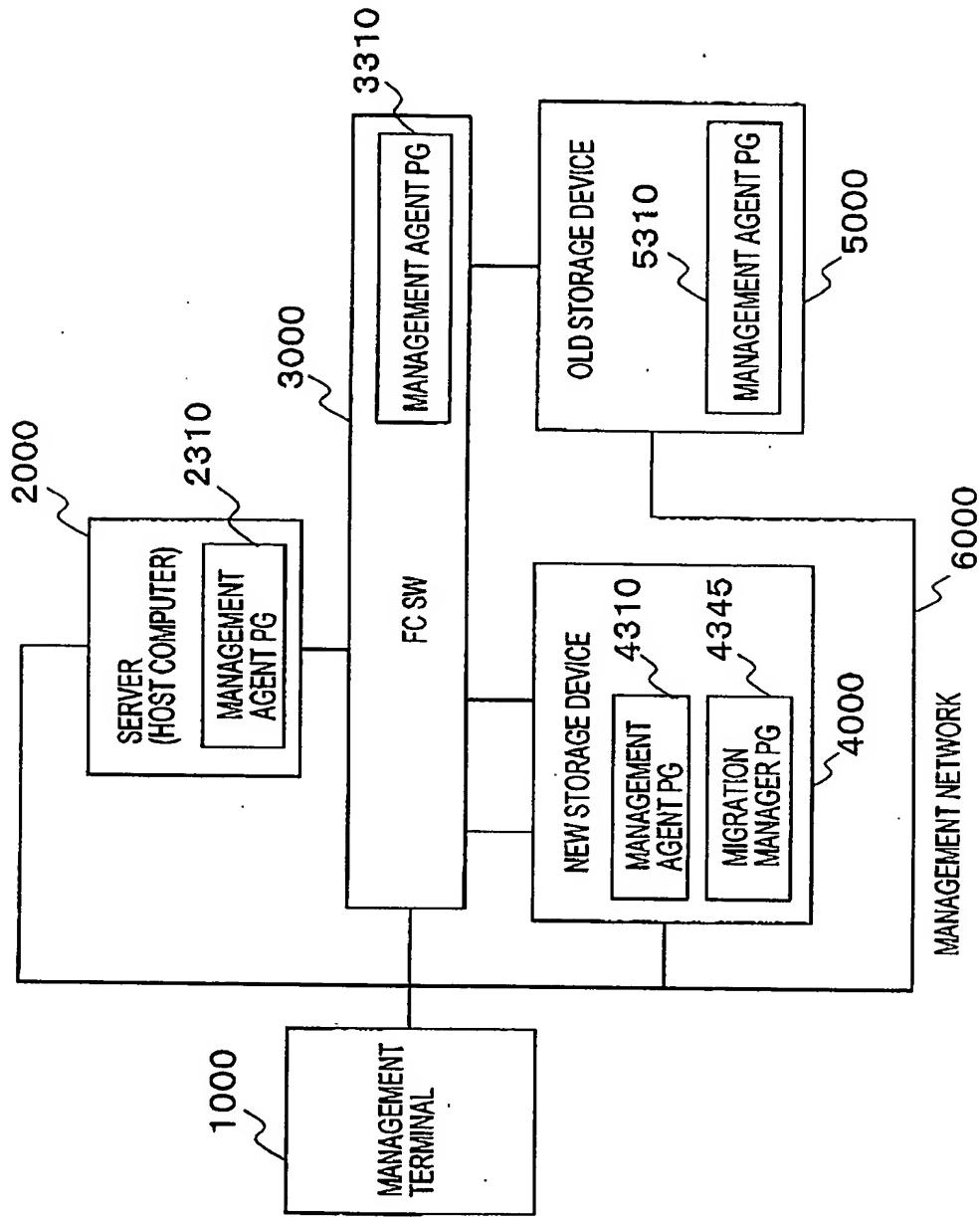


FIG.2

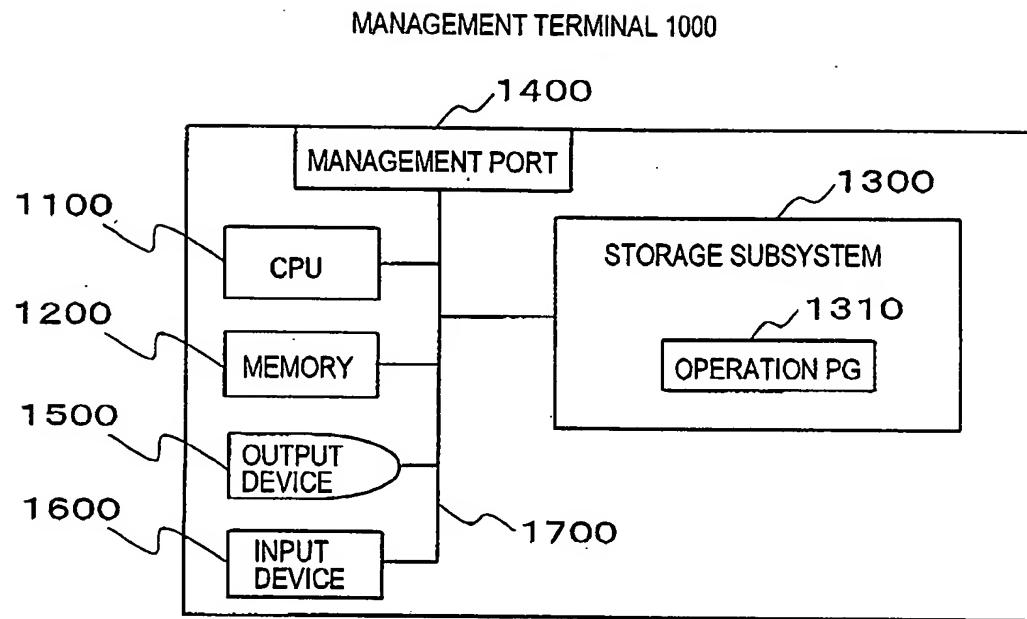


FIG.3

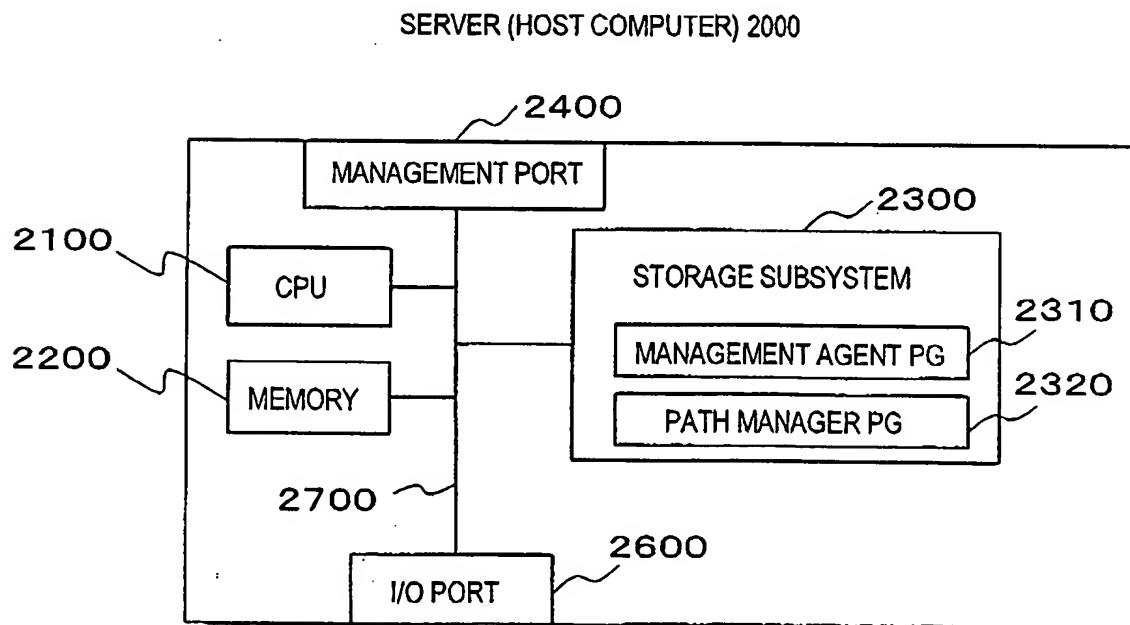


FIG.4

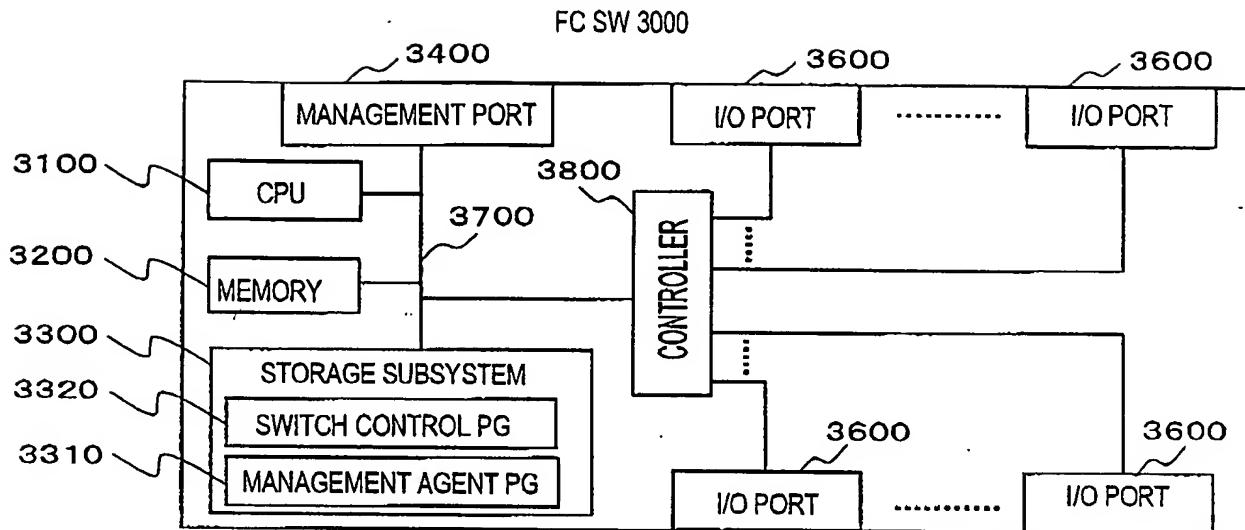


FIG.5

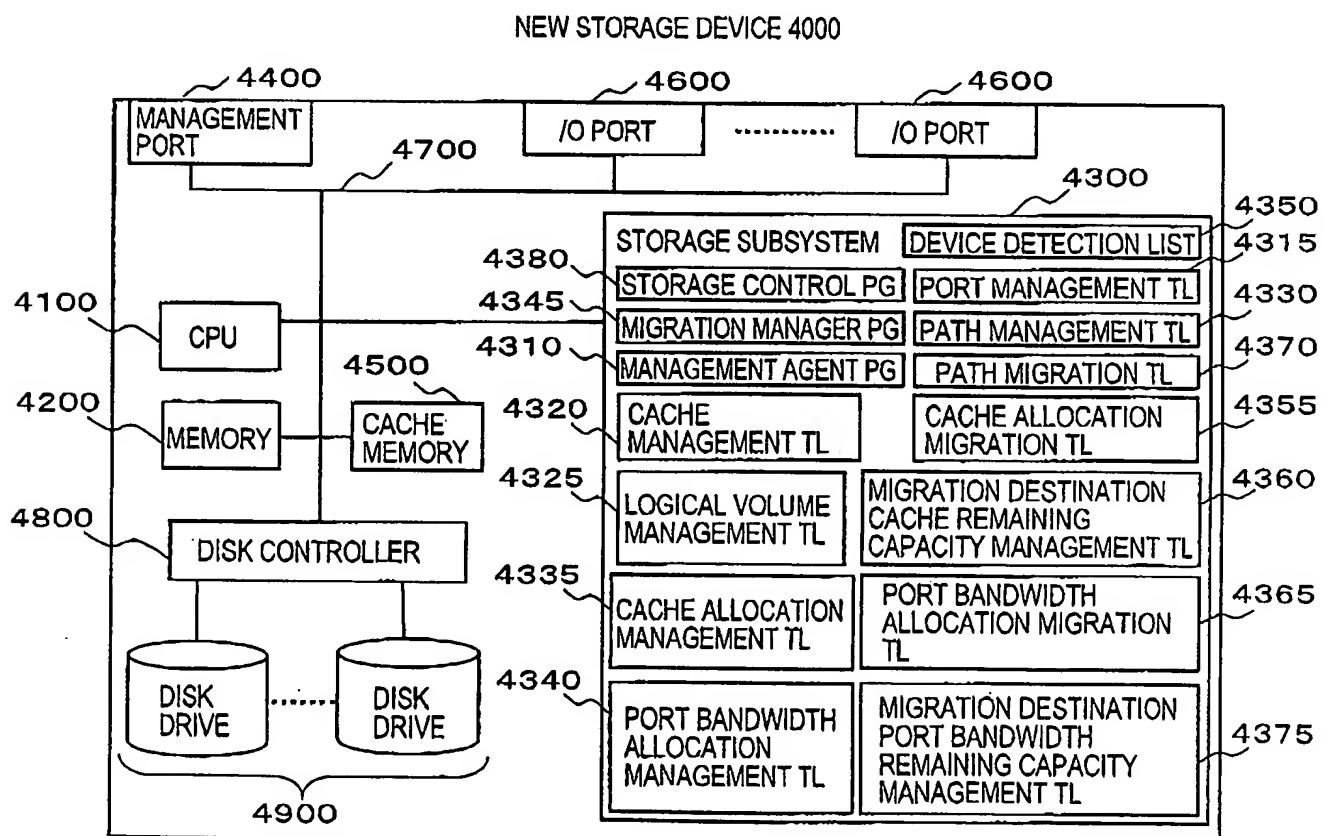


FIG.6

PORT MANAGEMENT TL 4315, 5315

PORT ID	PORT WWN WWN	SCSI ID	BANDWIDTH CAPACITY	BANDWIDTH REMAINING CAPACITY
port-b1	WWNb1	2	200MB /s	50MB /s
port-b2	WWNb2	3	200MB /s	200MB /s
port-b3	WWNb3	4	100MB /s	50MB /s
port-b4	WWNb4	4	200MB /s	200MB /s
:	:	:	:	:

FIG.7

CACHE MANAGEMENT TL 4320, 5320

43201	43202
CACHE TOTAL CAPACITY	CACHE REMAINING CAPACITY
10GB	7.5GB

FIG.8

LOGICAL VOLUME MANAGEMENT TL 4325, 5325

43251	43252	43253	43254
LOGICAL VOLUME ID	PATH ID LIST	VOLUME CAPACITY	DATA ARRANGEMENT
vb1	path -b1, path -b3	10GB	PARITY GROUP 0
vb2	path -b2	20GB	PARITY GROUP 1
vb3	path -b4	30GB	PARITY GROUP 2

FIG.9

PATH MANAGEMENT TL 4330,5330

PATH ID	PORT ID	LUN	LOGICAL VOLUME ID
path -b1	port -b1	1	vb1
path -b2	port -b1	2	vb2
path -b3	port -b3	1	vb1
path -b4	port -b3	2	vb3

FIG.10

CACHE ALLOCATION MANAGEMENT TL 4335,5335

LOGICAL VOLUME ID	CACHE ALLOCATION AMOUNT	CACHE RESIDENT AREA
vb1	1GB	300MB (ADDRESS 0 - 153600)
vb2	NO	500MB (ADDRESS 0 - 256000)
vb3	1GB	NO

FIG.11

PORT BANDWIDTH ALLOCATION MANAGEMENT TL 4340,5340

PATH ID	PORT ID	ALLOCATION BANDWIDTH
path -b1	port -b1	100MB /s
path -b2	port -b1	50MB /s
path -b3	port -b3	50MB /s

FIG.12

DEVICE DETECTION LIST 4350

DETECTION OBJECT ID	DEVICE TYPE	DEVICE INFORMATION	IP ADDRESS
vb1	STORAGE	VENDOR	100.100.100.103

FIG.13

CACHE ALLOCATION MIGRATION TL 4355

PROCESSED FLAG	MIGRATION SOURCE CACHE DEFINITION			MIGRATION DESTINATION CACHE DEFINITION		
	LOGICAL VOLUME ID	CACHE ALLOCATION AMOUNT	CACHE RESIDENT AREA	LOGICAL VOLUME ID	CACHE ALLOCATION AMOUNT	CACHE RESIDENT AREA
DONE	vb1	1GB	300MB	va1	1GB	300MB
YET	vb2		500MB	-	-	-
YET	vb3	1GB	NO	-	-	-

FIG.14

MIGRATION DESTINATION CACHE REMAINING CAPACITY MANAGEMENT TL 4360

MIGRATION DESTINATION CACHE REMAINING CAPACITY
9GB

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FIG.15

PORT BANDWIDTH ALLOCATION MIGRATION TL 4365

PROCESSED FLAG	MIGRATION SOURCE PORT DEFINITION			MIGRATION DESTINATION PORT DEFINITION		
	PATH ID	PORT ID	ALLOCATION BANDWIDTH	PATH ID	PORT ID	ALLOCATION BANDWIDTH
DONE	path-b1	port-b1	100MB /s	path-a1	port-a1	100MB /s
DONE	path-b2	port-b1	50MB /s	path-a2	port-a1	50MB /s
DONE	path-b3	port-b3	50MB /s	path-a3	port-a3	50MB /s

FIG.16

PATH MIGRATION TL 4370

PROCESSED FLAG	MIGRATION SOURCE PATH DEFINITION				MIGRATION DESTINATION PATH DEFINITION			
	PATH ID	PORT ID	LUN	LOGICAL VOLUME ID	PATH ID	PORT ID	LUN	LOGICAL VOLUME ID
DONE	path-b1	port-b1	1	vb1	path-a1	port-a1	1	va1
DONE	path-b2	port-b1	2	vb2	path-a2	port-a1	2	va2
DONE	path-b3	port-b3	1	vb1	path-a3	port-a3	1	va1
YET	path-b4	port-b3	2	vb3	-	-	-	-

FIG.17

MIGRATION DESTINATION PORT BANDWIDTH
REMAINING CAPACITY MANAGEMENT TL 4375

PORT ID	PORT BANDWIDTH REMAINING CAPACITY
port-a1	50MB /s
port-a2	200MB /s
port-a3	50MB /s
port-a4	200MB /s

FIG.18

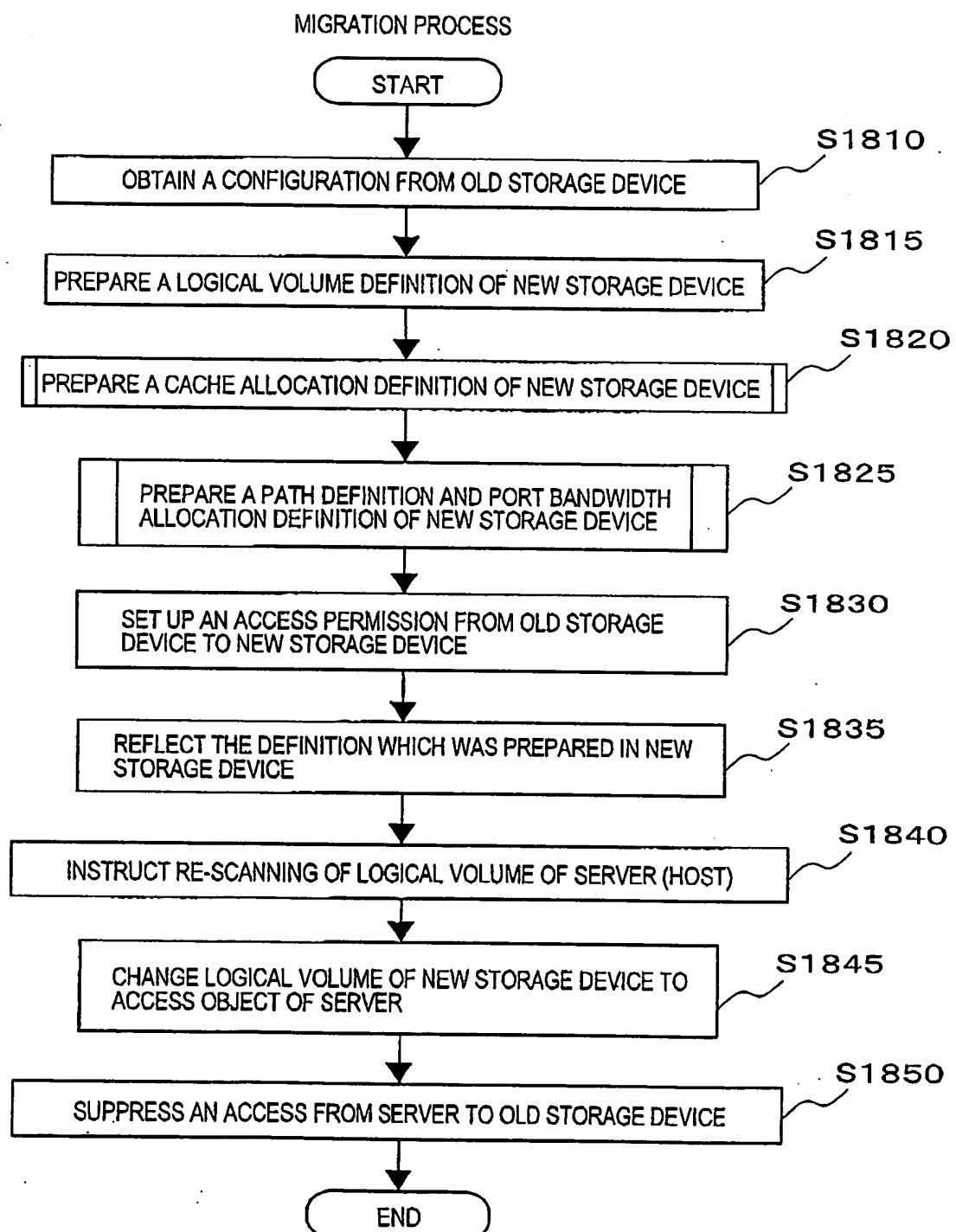


FIG.19

CACHE ALLOCATION DEFINITION PREPARATION PROCESS

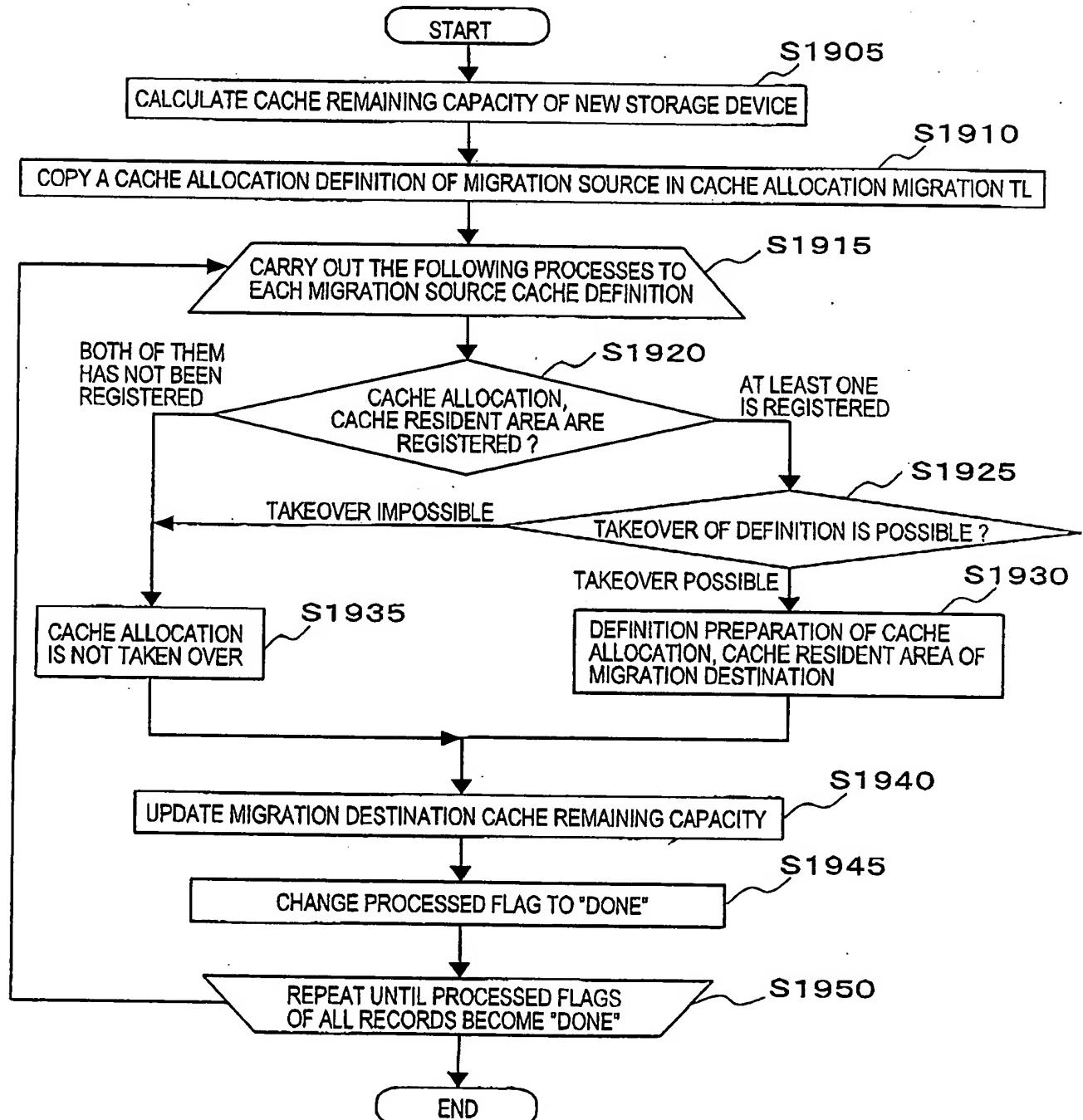


FIG.20

PATH DEFINITION AND PORT BANDWIDTH ALLOCATION DEFINITION PREPARATION PROCESS

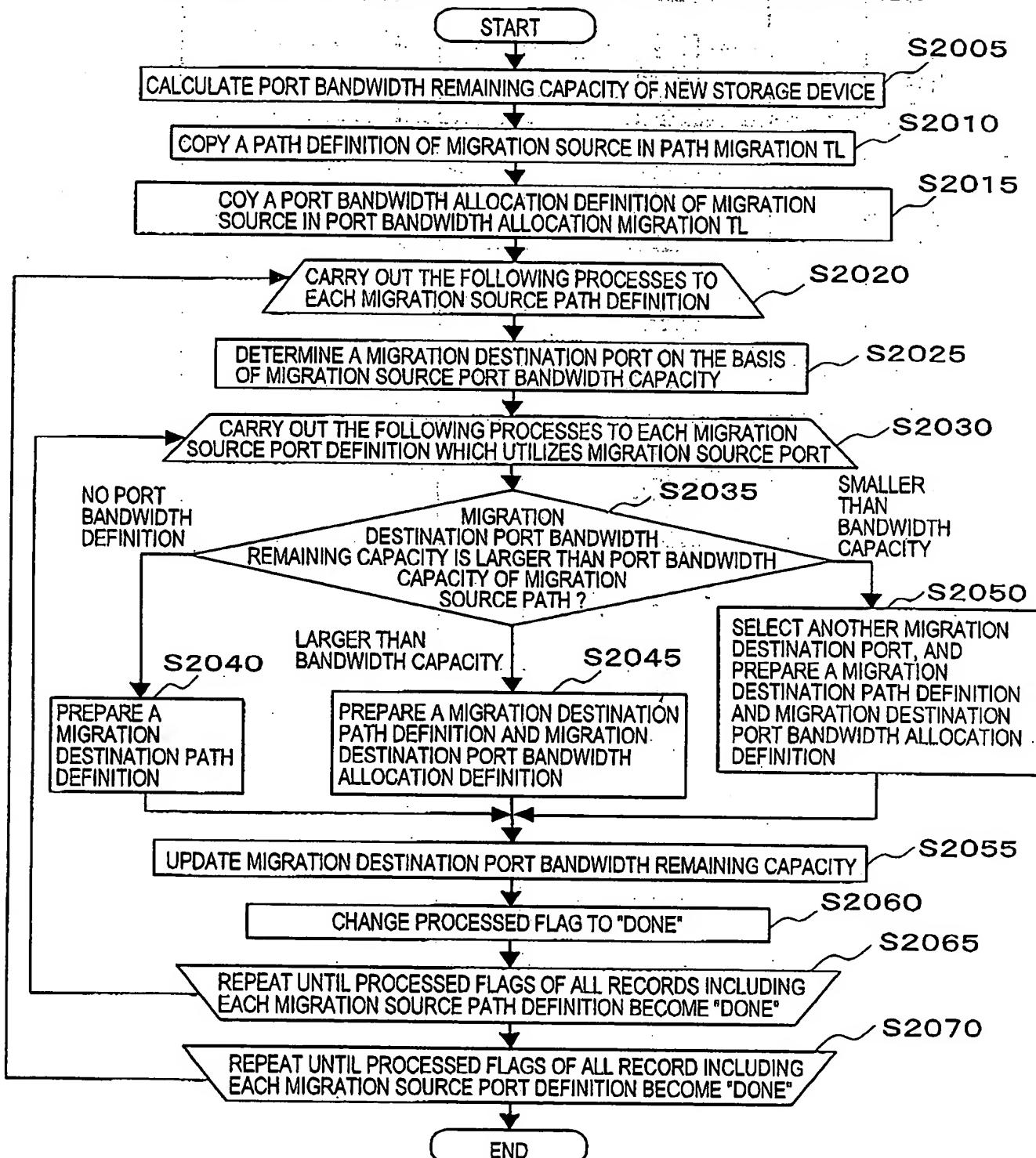


FIG.21

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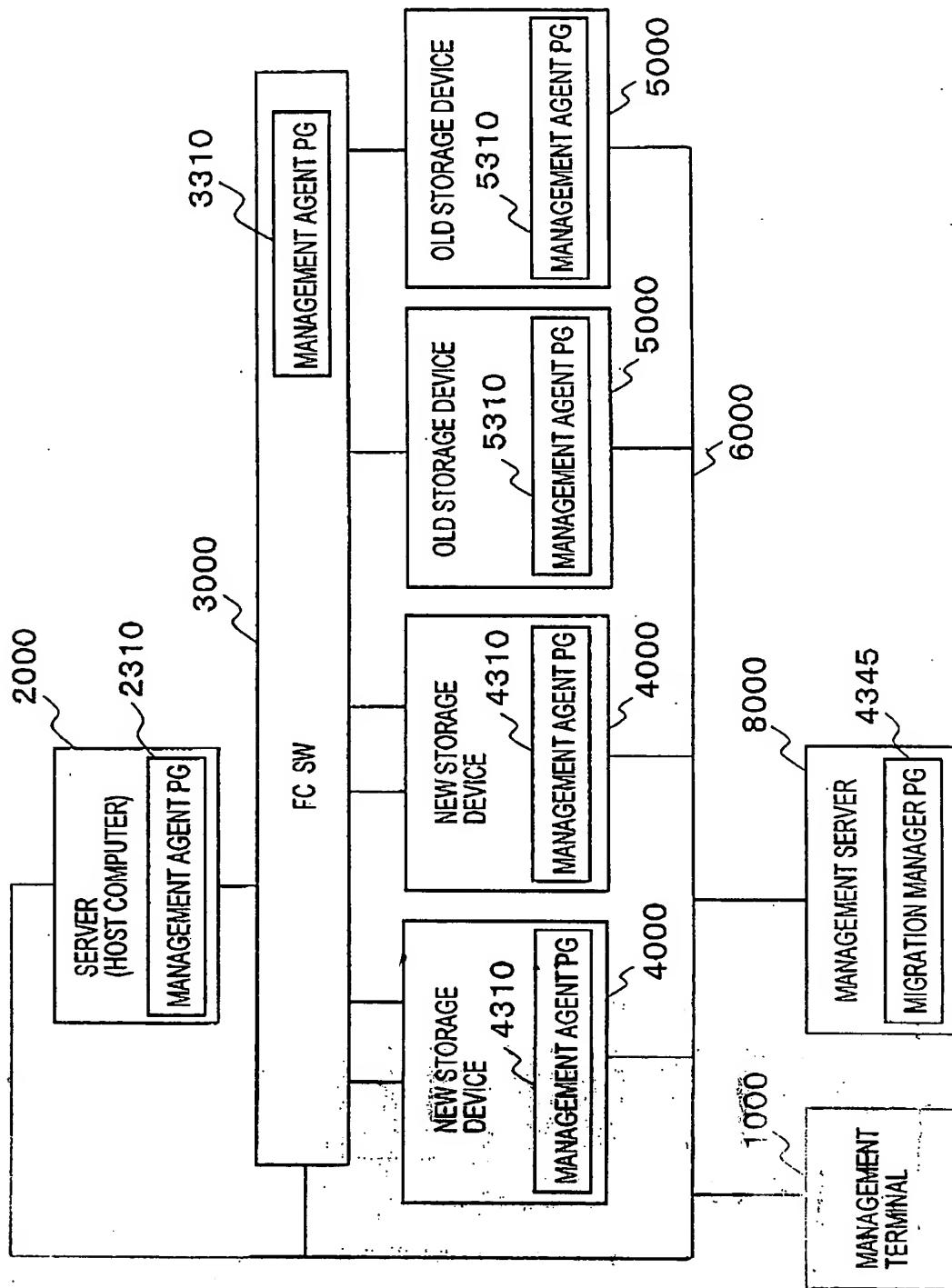


FIG.22

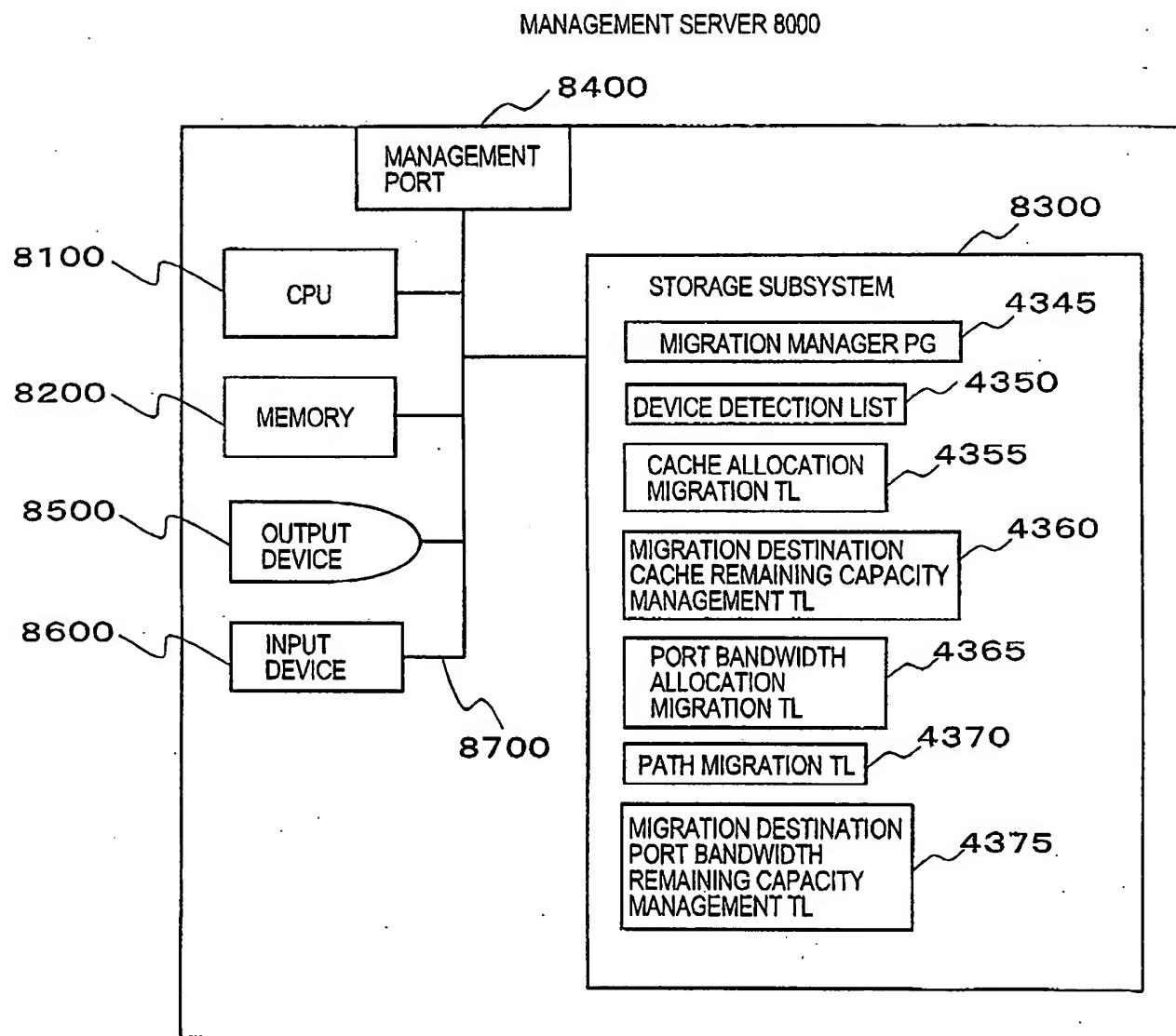


FIG. 23

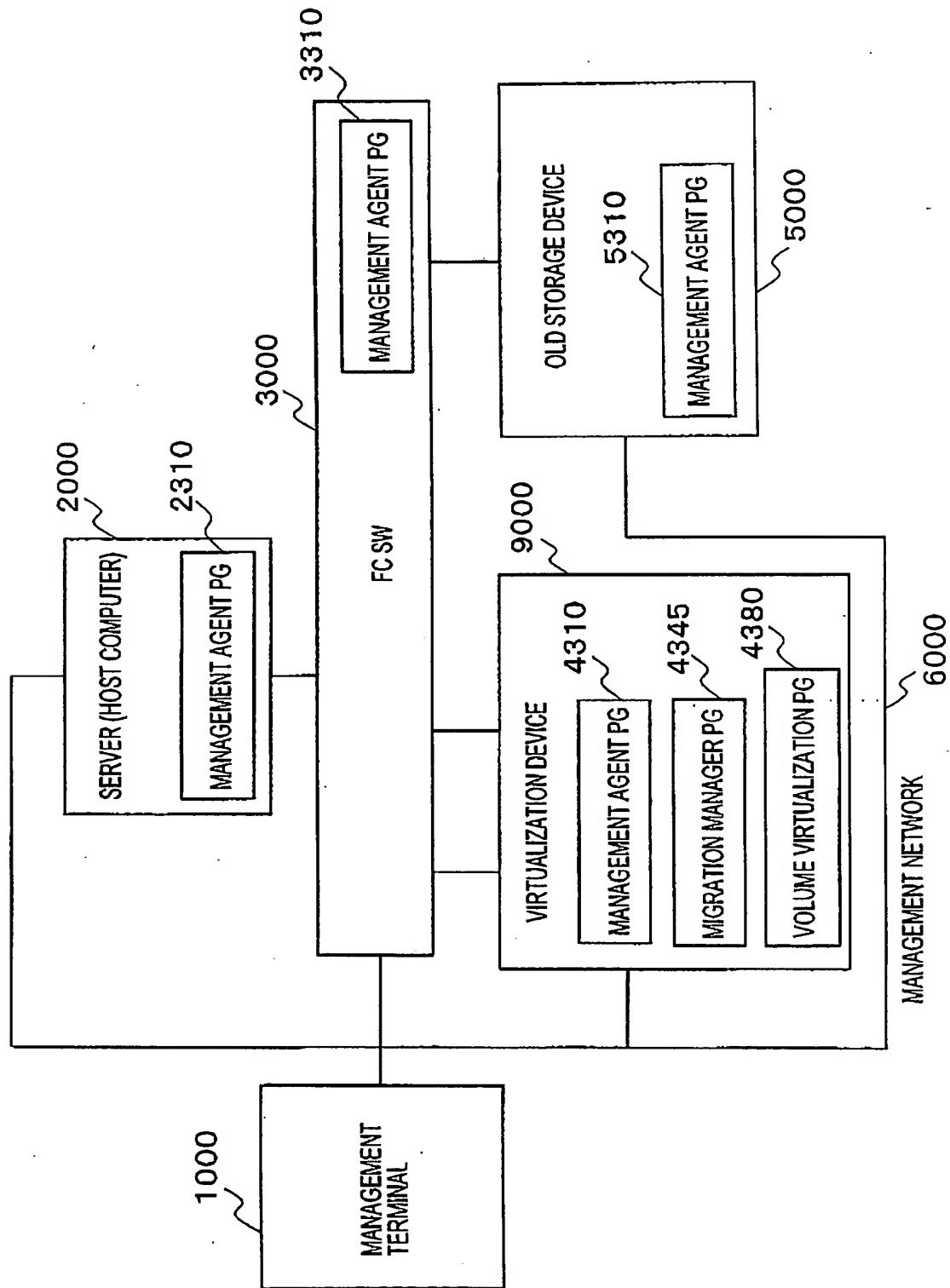


FIG.24

VIRTUALIZATION DEVICE 9000

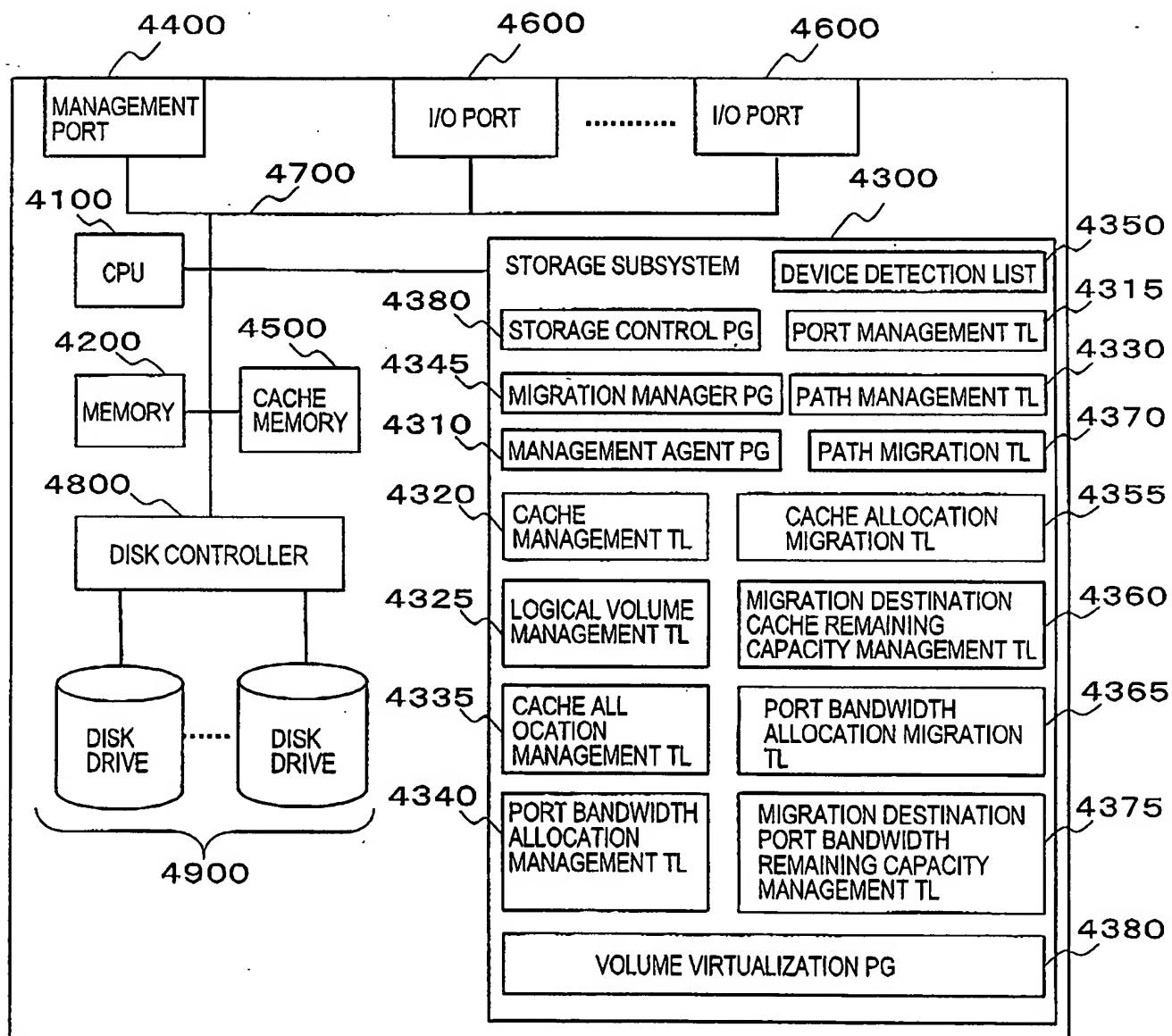


FIG.25

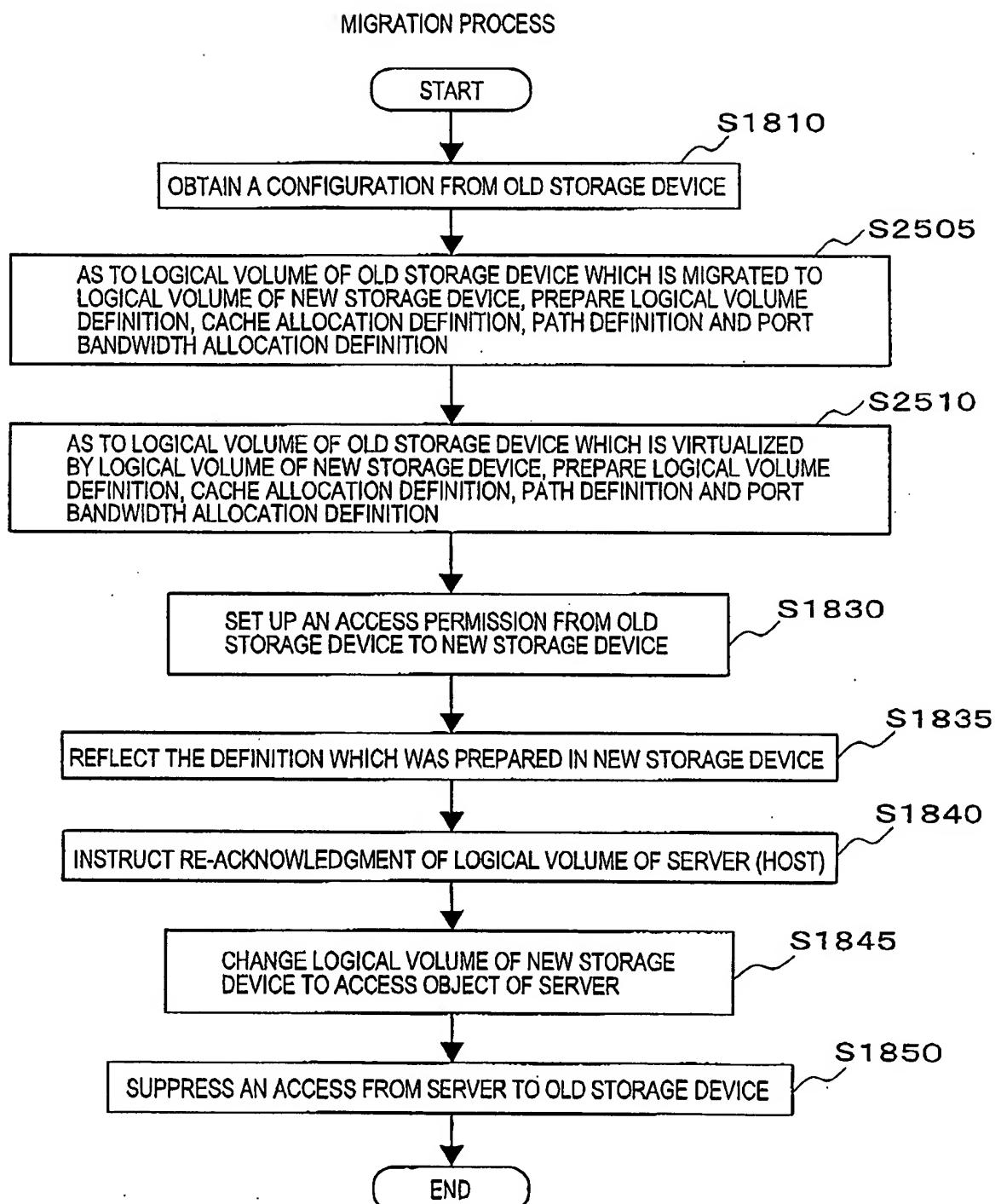


FIG.26

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